

## **Pulmonary Physiotherapy**

### **Pre-reading- vocabulary**

See how new words may be made from original expressions:

Depend -dependence-independence

Able-ability-disability

Fertile-fertility-infertility

Blue - bluish

Look - overlook

Front – forefront

Grow – growth

Short- shortness

Care+give-caregiver

Can you guess the meanings now?

See the definitions of the following vocabulary:

Increase to become greater

Endurance: lasting quality, the ability or strength to continue

Scar: a mark left by a healed wound

Sinus: cavity, passage

Diarrhea an intestinal disorder characterized by abnormal frequency and fluidity of fecal evacuations

Obstruct block or close

Restrict to keep within limits

Inhale to breathe in

Irritant thing causing excitement, reaction

Wheeze to breathe with difficulty and with a whistling sound

Cough act and sound that we produce when we suffer an infection of the throat

Sputum matter from the lungs and respiratory passages

Tint a pale colour

Clap to strike and object against something quickly

Cup to form into a cuplike shape

Drain to withdraw liquid

Condition to put in a fit or proper state

### **Reading**

**Read this text and the words in capital letters. Change the form of each word in capital letters so that it fits the context.**

### **Pulmonary physiotherapy**

Primary goals of this specialty include INCREASE endurance and functional independence. Manual therapy is used in this field to assist in clearing lung secretions experienced with cystic fibrosis.

**Cystic fibrosis** (also known as **CF** or **mucoviscidosis**) is a common genetic disease which affects the entire body, causing PROGRESS disability and often early death. The name *cystic fibrosis* refers to the characteristic scarring (fibrosis) and cyst formation. Difficulty breathing is the most serious symptom and results from frequent lung INFECT that are treated with, though not cured by, antibiotics and other medications. Many symptoms, including sinus infections, poor GROW, diarrhoea, salty tasting skin, and infertility result from the effects of CF on other parts of the body.

Other disorders, e.g., chronic OBSTRUCT pulmonary disease, also called chronic airways disease can be treated by pulmonary specialized physical therapists.

Chronic obstructive pulmonary disease (COPD). can cause a major change in the quality of a patient's life. However, physiotherapy can help.

Diseases included in chronic obstructive pulmonary disease, are chronic **bronchitis** and **emphysema**, for example. Many other diseases that restrict or limit breathing are included. It is most often caused by cigarette smoking, but also can be caused by inhaling other irritants such as those in the workplace. Chronic airways disease is more common among the elderly.

Along with having SHORT of breath, the patient is likely to wheeze and cough FREQUENT. He will produce sputum in large amounts, sometimes with blood. The lips and fingers can take on a BLUE tint because he is not getting enough oxygen, and heart trouble may follow for the same reason.

Physiotherapy can help with COPD in many ways. One is in breathing retraining. A physiotherapist works with the patient to teach him ways to breathe that will draw the most air while ELIMINATE the most wheezing. This can be a great help for those with chronic airways disease.

Another method used by physiotherapists for those with COPD is called clapping and postural DRAIN. This is done by positioning the body so that the affected lung is above the trachea.

Many people do this at home by lying on a bed and BEND the top half of the body over it. The physiotherapist teaches one how to do this so that the lung will drain. Before long, the patient with chronic airways disease will be doing this

PROCEED on his own.

The other part of the help for chronic airways disease patients is called clapping. This is done by CUP the hand and clapping the back to LOOSE secretions in the chest. It is also called chest percussion. The physiotherapist will do this procedure, and will teach it to a family member or caregiver.

People with chronic airways disease often have a problem with weakening legs. This is because, as they have trouble breathing, they avoid WALK or doing physical exercise of any sort. The goal of physiotherapy in this case is to STRENGTH the legs through treadmill-walking or stationary-cycling. This can only be done, however, if the patient is well enough to start out.

CONDITION the arms of chronic airways disease patients is just as important. Most daily jobs rely HEAVY on the arms to do the work. Exercises which focus on the arms not only strengthen the muscles of the arms. They also help the patient start breathing better.

COPD is a condition that can benefit from physiotherapy. The physiotherapist treating the patient must have specialized knowledge for this type of treatment. Simple methods can be overlooked as modern treatments come to the forefront. Yet, physiotherapy personnel who know this technique can make a big DIFFER in patients' lives.

**TASK:** After reading the article, sum up the main procedures used during the physiotherapy treatment of pulmonary diseases and describe their benefits.